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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,116	04/06/2001	Zhongnong Jiang	TI-32309	6799

7590 11/17/2003

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EXAMINER

GRIER, LAURA A

ART UNIT	PAPER NUMBER
2644	

DATE MAILED: 11/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/828,116	JIANG ET AL.
	Examiner	Art Unit
	Laura A Grier	2644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-33 is/are pending in the application.
 - 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1,2,5,23 and 24 is/are rejected.
- 7) Claim(s) 3,4,6-22 and 25-33 is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ .	6) <input type="checkbox"/> Other: ____ .

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1 and 23** are rejected under 35 U.S.C. 102(b) as being anticipated by Wilson, U. S. Patent No. 5471651.

Regarding **claims 1 and 23**, Wilson discloses a method and system for compressing the dynamic range of audio signals (figures 3 and 5). Wilson's disclosure comprises a receiver receiving an audio input, wherein the audio input undergoes compression for the purposes of controlling level of the signal from clipping a signal when the signal exceeds a particular level, specifically in figure 3, a circuit is provided where an input is received, compression laws are applied to calculate a gain value (inherent as a compression ratio) in respect to the peak level of a signal, which reads on the input and compression circuit (col. 4, lines 13-58, and col. 10, lines 5-16).

3. **Claims 1, 2, 5, 23 and 24** are rejected under 35 U.S.C. 102(b) as being anticipated by Werrbach, U. S. Patent No. 5463695.

Regarding **claims 1 and 23**, Werrbach discloses a peak accelerated compressor. Werrbach's disclosure comprises an audio signal input into the amplifier (VCA), which is part of the compressor's structure, as well as the VCA, peak filter and level detector (figures 2a-2b, and

6-7), thus a compression circuit where a compression ratio is applied to the input signal when it includes transient peaks that cause the level of the signal to become excessive (col. 2, lines 33-42, col. 6, lines 51-67 and col. 7, lines 1-11), which reads on an input and compression circuit, wherein the compression ratio is a function the a signal peak level.

Regarding **claim 2 and 24**, Werrbach discloses everything claimed as applied above (see claim 1 and 23, respectively). Werrbach further discloses the a varied gain may be applied in respect to the changes of the level as indicated by the level detector (col. 2, lines 43-52), which indicates non-uniform gain distribution.

Regarding **claim 5**, Werrbach discloses everything claimed as applied above (see claim 2). It is inherent that an instantaneous gain value is produced by evaluating the compression, as evidence by the fact that change in value of the gain results in a change in compression.

4. **Claims 3-4, 6, 22 and 25-33** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A Grier whose telephone number is (703) 306-4819. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding
should be directed to the receptionist whose telephone number is (703) 305-4700.

LAG
November 15, 2003


XU MEI
PRIMARY EXAMINER